

DERWENT-ACC-NO: 1976-86596X
DERWENT-WEEK: 197646
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TITLE: Hoist flat ropes assembly - transverse elastic plate with rope guides
in relation to sheath improves service life

PATENT-ASSIGNEE: MINE CONS ORG MECH(MINER)

PRIORITY-DATE: 1974SU-2090961 (December 30, 1974)

PATENT-FAMILY:

PUB-NO
SU 505764 A

PUB-DATE
April 28, 1976

LANGUAGE
N/A

PAGES
000

MAIN-IPC
N/A

INT-CL (IPC): D07B001/22

ABSTRACTED-PUB-NO: SU 505764A

BASIC-ABSTRACT: The proposed hoist flat ropes assembly reduces the specific pressure on the lining of the drive pulley in a hoist using several parallel ropes contained in an elastic sheath. It also widens the scope of applications and reduces the operational costs. The load-relieving transverse plates reduce the pressure of the ropes on the elastic sheath when running over the pulley, and this maintains the adhesion to the sheath as well as prevents cutting through the latter. The lower loading of the pulley lining permits reduction of the pulley diameter to be carried out, and therefore decreases the overall size of the hoist.

TITLE-TERMS:

HOIST FLAT ROPE ASSEMBLY TRANSVERSE ELASTIC PLATE ROPE GUIDE RELATED SHEATH
IMPROVE SERVICE LIFE

DERWENT-CLASS: F07

CPI-CODES: F04-A;

84394X/46

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P07

MINE# 30.12.74

*SU -505-764

30.12.74-SU-000961 (28.04.76) D07b-01/22

Hoist flat ropes assembly - transverse elastic plate with rope guides in relation to sheath improves service life

The proposed hoist flat ropes assembly reduces the specific pressure on the lining of the drive pulley in a hoist using several parallel ropes contained in an elastic sheath. It also widens the scope of applications and reduces the operational costs. The load-relieving transverse plates reduce the pressure of the ropes on the elastic sheath when running over the pulley, and this maintains the adhesion to the sheath as well as prevents cutting through the latter. The lower loading of the pulley lining permits reduction of the pulley diameter to be carried out, and therefore decreases the overall size of the hoist.

The non-twisting parallel ropes 1 are linked by the transverse plates 2 whose guides 3 fix the position of the ropes in the elastic sheath 4. The plates are spaced from each other and are offset from the centre line of the rope in opposite direction to the working side.

F(4-A).



SU -505764/46